(ii) Mysore Serum Institute, Bangalore

736. The institute continued to manufacture and supply on a commercial scale, the required biological products for the control of epizootic diseases in the State and for supply to the several places outside the State.

Sheep and Goat disease Investigation.

737. Sixty three post-mortems were conducted on sheep and goats while 643 blood and tissue smears and 807 faecal samples were examined, during the year. Among sheep of Dharwar, Bellary and Chitradurga districts, incidence of Haemonchosis frequently associated with anteroteseaemia resulting in heavy mortality was very high.

Parasitology Section.

738. The nine centres established for controlling liver flukes with the financial assistance of the Government of India continued during the year. A total of 1,65,715 animals were dosed besides castrations of 1,527 animals and treating 782 for non-contagious diseases.

Biological products.

739. As regards the stock of biological products, the year commenced with an opening balance of 59,845 doses and 51,595 of all biologicals. During the year 42,83,725 (40,72,610) doses and 16,52,155 (2,10,970) c.c. were prepared. Out of these, 41,72,815 (42,08,599) doses, 16,57,772 (2,03,925) c.c. were used.

740. The following were the biological products prepared and issued from the Serum Institute, Bangalore :— 1. H. S. Vaccine ; 2. H. S. Serum ; 3. B. Q. Vaccine ; 4. B. Q. Serum ; 5. Anthrax Serum ; 6. Anthrax Saporium vaccine; 7. Ranikhet Disease Vaccine; 8. Sheep pox Vaccine. 9. Fowl pox Vaccine; 10. Goat pox Vaccine : 11. R. P. Serum ; 12 R. P. Goat Virus ; 13. Anti Rabic Vaccine and 14. Normal Saline.

741. The total receipts and expenditure of the Institute during the year were Rs. 5,96,545-45 (Rs. 5,61,342-34) and Rs. 2,76,242-66 (Rs. 2,62,099-40) respectively, resulting in a net increase of Rs. 3,20,302-79 (Rs. 1,99,242-94)

Amrithmahal

742. The strength in the four economic farms at the beginning of the year was 1917 (1,870). The year closed with 1,766 (1,917) animals.

743. ***Aided Cattle Breeders' Scheme*** :—The scheme was implemented 24 years ago to encourage private breeders of Amrithmahal Cattle. There were 14 (14)

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private breeders with a stock of 2,408 (2,207). During the year there were 411 (381) births and 131 (123) deaths. At the close of the year there were 2,688 (2,518) animals.

Cattle Breeding Station, Ajjampur.

744. There were 1,139 (1,149) heads of cattle at Basur and Ajjampur farms and the year closed with 1,101 (1,139), heads of cattle. Forty (45) bulls were supplied during the year for breeding purposes.

745. On an average 29 (25) cows were in milk which yielded 24,761 1/2 (24,978½) lbs of milk which accounted for a receipt of Rs. 4,669-29 (Rs. 4,689-80).

746. The total receipts from all sources including the subvention for bulls sold and distributed amounted to Rs. 1,07,746-(Rs. 66,068-87), whereas the cash receipts were Rs. 13,816-64 (Rs. 36,952-87). The total expenditure incurred was Rs. 1,19,828-30 (Rs. 82,895-52).

Combined sheep and cattle farm, Kurikuppi.

747. There were 231 (217) heads of Hallikar cattle and 47 (88) Murrah buffaloes and 494 (439) sheep in the Combined Sheep and Cattle Farm, Kurikuppi at the end of the year.

Cattle cum Sheep Breeding Farm, Munirabad

748. At the close of the year there were 434 Murrah buffalow bulls, 391 sheep and 214 poultry in the cattle cum sheep breeding farm.

749. The receipts and expenditure of the farm was Rs. 21,000 (16,000) and Rs. 1,58,453-77 (Rs. 78,890) respectively.

Government Dairy Farm, Kudige.

750. From the animals of Government Dairy Farm, Kudige, 1,36,186½ (1,08,222½) lbs. of milk was produced.

751. The total receipts of the farm for the year under all heads amounted to Rs. 29,568-90 (Rs. 35, 861-85) against an expenditure of Rs. 89,855-25 (Rs. 96,508-52.)

Second Five Year Development Plan Schemes.

752. Under the Second Five Year Plan, several schemes were drawn up with the object of improving the live-stock wealth of the State. Among them were :—

(1) *Veterinary College :*—Construction of various buildings required for the Veterinary College was in various stages of progress. A Pre-Professional Course and a Second Year B. V. Sc., Class were started with 78 and 55 students respectively, and 81 were admitted to the first year course during the year.

(2) *Key Village Scheme:*—Under the Key Village Scheme, three Key Village Blocks at Ponnampet, Somavar

pet and Devi-hossur (Haveri) were upgraded by the addition of two more Units to each. Four new Key Village Blocks were established at Hubli, Kanakapura, Honnali, and Channarayapatna bringing the total to 18 at the close of the year. In these, 113 selected calves were subsidised to prevent their early castration.

(3) *Artificial Insemination Centres :*—The existing Artificial Insemination Centres were continued during the year.

(4) *Sheep Development Scheme :*—Forty sheep and wool Extension Centres under five Supervisory Units were functioning during the year. From Rajasthan 185 Marwari breed of Rams were purchased for distribution among the Shephards of the areas. A wool utilization and Analysis Loboratory was sanctioned at Ranebennur, during the year.

(5) *Poultry Development Scheme :*—Under the Poultry Development Scheme, the existing eight Extension Centres were continued and eight new Poultry Extension Centres were sanctioned for Belgaum, Gulbarga, Shimoga, Kolar, Tumkur, Chikmagalur, T. Narasipur and Hassan.

(6) *Piggery Development Scheme :*—Under the Piggery Development Scheme, two blocks were opened in Bangalore and Mangalore Districts and 100 boars were distributed to selected custodians in these areas. Payment of maintenance and subsidy at Rs. 5 per boar per month was continued as in previous years.

(7) *Education and Training :*—Under the scheme, 91 stockmen were trained at the Dharwar Stockmen Training School. Eight candidates underwent training for I. D. C. Course. Compounder Training classes at Mangalore, Belgaum, and Gulbarga were sanctioned. Payment of stipends to the State nominees studying in outside Colleges was continued.

(8) *Live-stock Development Scheme :*—Under this Scheme, 94 (60) breeding bulls were distributed to the selected custodians free in all the Districts. The total number of coverings done by the bulls including those distributed during previous year was 23,548 (15,092).

(9) *Bangalore Milk Supply Scheme :*—The Scheme was continued and became eligible for "UNICEF"

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assistance to the tune of Rs. 30 lakhs in the form of machinery and equipment.

(10) *Hubli-Dharwar Milk Supply Scheme:*—The Scheme was continued and handled 3,000 lbs of milk daily on an average.

(11) *Buffaloes Dairy Scheme at Kurikuppi :*—The scheme continued and an additional stock of 30 Murrah buffaloes was purchased from Delhi. Daily, on an average, 220 lbs of milk were handled during the year.

(12) *Milk Supply Scheme, Kudige :*—Under the Scheme on an average 3,500 lbs of milk were handled daily.

(13) *Bhadravati Milk Supply Scheme :*—The first stage of Bhadravathi Milk Supply Scheme survey work was taken up during the year.

(iii) (*a*) Composite Livestock Farm and Research Station, Hessarghatta.

753. The seasonal conditions were, in general, favourable during the year.

754. The irrigated grasses comprised of Rhodes, Jaint Napier Sucerne and mixed varieties. Besides, 107 pounds of grass seeds and 12,600 grass roots slips were distributed in the National Extension Service Blocks and to private individuals.

Dry Cattle Farm

755. There were three buffaloes, one Jercy and one Sindhi breeding bulls throughout the year. During the year 92 (52) cows and 16 (7) she-buffaloes were admitted while 87 (80) cows and 13 (5) she-buffaloes were discharged.

Goat Breeding.

756. The year opened with 2 (2) bucks, 23 (24) does, 14 (16) doe kids and 13 (19) buck kids. During the year, there were 33 (18) births and 6 (6) deaths. Three buck kids and 4 doe kids were supplied to Germany while 20 (18) were issued for breeding purposes in the State.

Mutton (Bannur) Type

757. The year opened with 4 (4) rams, 136 (127) Ewes, 166 (128) lambs. During the year, there were 44 (66) births and 38 (20) deaths.

Hallikar Cattle Breeding.

758. There were 419 (374) animals at the beginning of the year and 425 (419) at the close of the year. During the year, there were 83 (90) births and 20 (27) deaths.